RESEARCH DEPARTMENT

BODMIN V.H.F. RELAY STATION: SUMMARY OF INSTALLATION

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for Head of Research Department

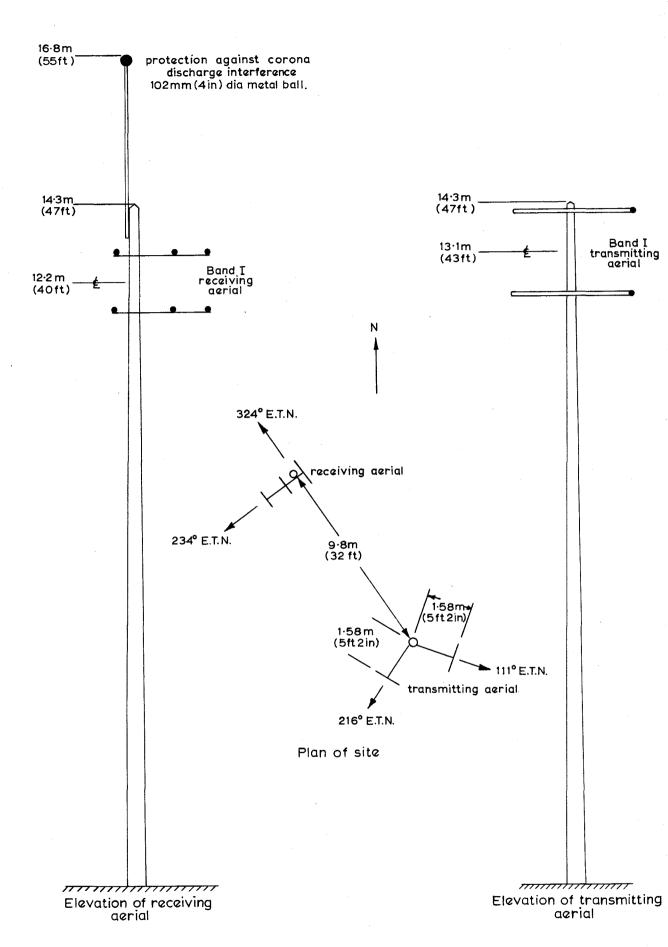


Fig.1 General arrangement of aerials on wooden support poles

NO. RA-2/7

1967/45

V.H.F. RELAY STATIONS: SUMMARY OF INSTALLATION **TELEVISION**

NAME:

BODMIN

SERVICE TRANSMISSIONS COMMENCED: 19th September 1966

SITE DATA

LOCATION: 0.48 km (0.3 miles) North of Bodmin

DESCRIPTION. Two horizontal $\lambda/2$

dipoles per tier

GRID REFERENCE: SX 071675

HEIGHT, A.O.D.:

122m (400 ft)

2 NUMBER OF TIERS:

TRANSMITTING AERIAL

MEAN HEIGHT:

13.lm (43 ft)

SUPPORT STRUCTURE

TYPE: Wooden Poles

OVERALL HEIGHT: 14.3m (47 ft)

FEEDERS

TRANSMITTING: RPC 2603

GENERAL ARRANGEMENT

FIGURE: 1 RADIATION CHARACTERISTICS

POLARIZATION: Horizontal

FREQUENCIES

1

5

CHANNEL:

BAND:

MAXIMUM E.R.P.: 10.2W

MEAN E.R.P.:

7.6W

VISION CARRIER OFFSET: -16.875 kHz

SOUND CARRIER OFFSET: -20 kHz

H.R.P.: Fig. 2

TRANSMITTER

POWER: TOM (Translator) PROGRAMME SOURCE

PARENT: Redruth

Obtained by direct reception

NOTES:

1. Detailed information is given on the following drawings held by BBC Transmitter Planning and Installation Department:

PID 6047.2.142A4 Arrangement of Transmitting Aerials on Wooden Pole PID 6047.2.143A4 Arrangement of Receiving Aerials on Wooden Pole

PID 8732.2.3J Band I Transmitting Dipole, Type H.P.N.

PID 8732.2.4A2 Band I Receiving Yagi, Type 353P

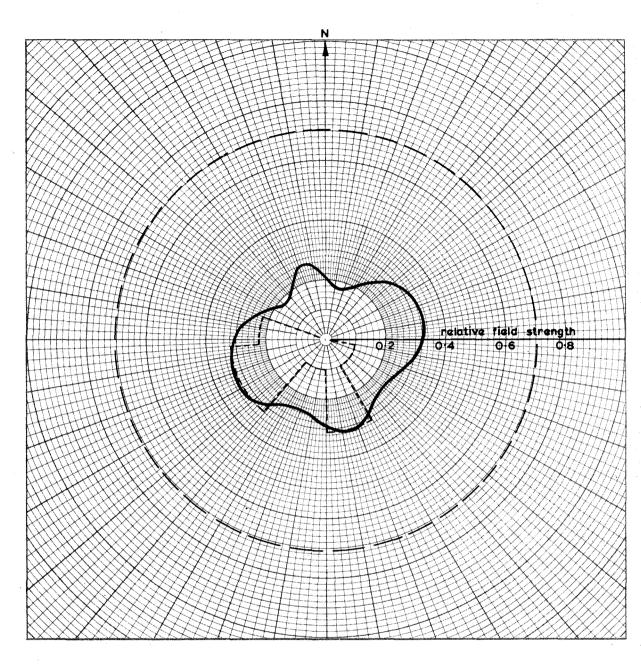


Fig. 2 Band I templet and horizontal radiation pattern

——————Maximum permissible E.R.P.

——————Minimum desirable E.R.P.

Unit field corresponds to an E.R.P. of 100 W